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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,129	09/30/2003	Jun Eui Chang	1594.1266	3827
21171	7590	04/26/2005	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PHAM, MINH CHAU THI	
			ART UNIT	PAPER NUMBER
			1724	

DATE MAILED: 04/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/673,129

Applicant(s)

CHANG ET AL.

Examiner

Minh-Chau T. Pham

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                            | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

After thoroughly considering the Amendment After Final filed on April 11, 2005, the finality is hereby withdrawn and the prosecution is reopened for this instant application.

***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-5, 7-10 and 12-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald (5,984,990), in view of Behl (6,319,116 B1).

McDonald discloses an air cleaning apparatus (10) comprising a cabinet provided with a top panel (12) of a predetermined area, a blowing unit (30) installed in the cabinet, and a filtering unit (28) installed in the cabinet to remove impurities from air circulated by the blowing unit (30). Claims 1-5, 7-10 and 12-31 differ from the disclosure of McDonald in that the blowing unit and the filtering unit are slidably insertable and removable from the cabinet. Behl discloses a filter (30) and the blowing unit or fan (26) are slidably insertable and removable from the cabinet (10). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide both the filter and the fan slidable in and out of the cabinet as taught by Behl in the air cleaning apparatus of McDonald so that it would be easier to provide access to the fan casing for maintenance or routine check-out of the fan.

Claims 6 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald (5,984,990), in view of Behl (6,319,116 B1), and further in view of Rosen (5,525,136).

Claims 6 and 11 call for a multilayered filtration in the filter casing. Rosen discloses a multilayered filtration including a filter (50) comprising of a fiber media mat having an entering air face (54) and leaving air face (52) wherein the fibers are packed more densely on the leaving air face (52) than on the entering air face (54) permitting the accumulation of larger particles at the air entering face of the filter and the filtration of the finer particles on the more closely packed air-leaving face (col. 4, lines 21-30), and an electrostatic filter (40). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a multilayered filtration as taught by Rosen in the filter casing of McDonald and Behl since multiple layered of the filtration media would increase the filtering efficiency of the filter to capture all different sizes of particulates in the dirt laden air passing through.

***Response to Amendment***

Applicant's arguments filed on November 19, 2005 have been fully considered but they are not persuasive.

Applicant amends the claims to include "the blowing unit and the filtering unit are slidably insertable and removable from the cabinet" and argues that none of the cited prior arts discloses such a feature. The Examiner now drops the Japanese reference and newly introduces Behl as the secondary in the 103 rejection to show a filter at a desk with air cleaner wherein that the blowing unit or fan (26) and the filtering unit (20) are slidably insertable and removable from the cabinet (10), as claimed. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide both the filter and the fan slidable in and out of the cabinet as taught by

Behl in the air cleaning apparatus of McDonald so that it would be easier to provide access to the fan casing for maintenance or routine check-out of the fan.

Applicant's arguments with respect to claims 1-31 have been thoroughly considered but are moot in view of the rejection as discussed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**Minh-Chau Pham**  
**Patent Examiner**  
**Art Unit: 1724**  
**April 21, 2005**